PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference BURN1110WO					
International application No. PCT/US05/05407	International filing date (day/month/year) 18 February 2005 (18.02.2005)	(Earliest) Priority Date (day/month/year) 20 February 2004 (20.02.2004)			
Applicant THE BURNHAM INSTITUTE					
This international search report consists of the Report a. With regard to the language, the		in this report.			
1	e international application into irnished for the purposes of international search				
b. With regard to any nucleotic	de and/or amino acid sequence disclosed in th	ne international application, see Box No. I.			
2. Certain claims were found	unsearchable (See Box No. II)				
3. Unity of invention is lackin	g (See Box No. III)				
4. With regard to the title ,		•			
the text is approved as subm	itted by the applicant.				
the text has been established	by this Authority to read as follows:				
5. With regard to the abstract,					
the text is approved as submi	itted by the applicant.				
· · · · · · · · · · · · · · · · · · ·	, according to Rule 38.2(b), by this Authority a the date of mailing of this international search				
as suggested by the as selected by this A	oublished with the abstract is Figure Noapplicant. Authority, because the applicant failed to suggestathority, because this figure better characterize	st a figure.			
b. none of the figures is to be published with the abstract.					

Form PCT/ISA/210 (first sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/05407

		1 C1/0303/03407		
A. CLASSIFICATION OF SUBJECT MATTER IPC(8): C07H 1/00(2006.01),9/00(2006.01),5/04(2006.01),5/06(2006.01);C07G 11/00(2006.01);A01K 67/027(2006.01);C12P 21/00(2006.01),19/60(2006.01);A23C 9/154(2006.01);C12N 9/10(2006.01);A01N 43/04(2006.01);A61K 31/70(2006.01)				
USPC: According to	536/1.11,4.1,22.1;800/14-18,7;426/580;435/74,193 International Patent Classification (IPC) or to both national			
B. FIELI	DS SEARCHED			
	cumentation searched (classification system followed b 66/1.11,4.1,22.1;800/14-18,7;426/580;435/74,193;514/	· ·		
Documentation	on searched other than minimum documentation to the	extent that such documents are included in	the fields searched	
	ta base consulted during the international search (name US, BIOSIS, EMBASE, MEDLINE	e of data base and, where practicable, search	h terms used)	
C. DOC	JMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
Y	ASHIDA, H. et al. A Novel Endo-Beta-Galactosidase Liberates the Disaccharide GlcNAc-Alpha-4Gal from Gastric Gland Mucous Cell-Type Mucin. Journal of I 276, No. 30, pp. 28226-28232, see pages 28229-2823	Glycans specifically expressed in the Biological Chemistry. 2001, Volume	1-88	
Y	ZHANG et al. Immunohistochemical Demonstration Acetylglucosaminyltransferase that Forms GlcNAc-A Gastorintestinal Mucosa. Journal of Histochemistry a No. 5, pp. 587-596, see pages 589-594.	Ipha-1,4-Gal-beta Residuesin Human	1-88	
	•		· · · · · · · · · · · · · · · · · · ·	
Further	documents are listed in the continuation of Box C.	See patent family annex.		
• Sp	pecial categories of cited documents:	"T" later document published after the inter date and not in conflict with the applica		
"A" document particular	defining the general state of the art which is not considered to be of relevance	principle or theory underlying the inver	ntion	
"E" earlier app	olication or patent published on or after the international filing date	"X" document of particular relevance; the cl considered novel or cannot be considered when the document is taken alone		
	which may throw doubts on priority claim(s) or which is cited to he publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive step combined with one or more other such	when the document is	
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	· · · · · · · · · · · · · · · · · · ·	
	published prior to the international filing date but later than the te claimed	"&" document member of the same patent for	amily	
	tual completion of the international search	Date of mailing of the international search	n report	
	6 (20.03.2006)	Authorized officer 1	JU (1)	
	iling address of the ISA/US Stop PCT, Attn: ISA/US	(XIOLOG 6	Vackes,	
Com	nmissioner for Patents	Deborah Crouch, 11.D	- according	
	Box 1450 andria, Virginia 22313-1450	Telephone No. 371-272-0500	20/	
	(571) 273-3201			

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International application No.
PCT/US05/05407

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	NAKAYAMA, J. et al. Expression Cloniing of a Human Alpha-1,4-N-Acetylglucosaminyltransferase that Forms GlcNAc-Alpha-1,4-Gal-Beta-R, a Glycan Specifially Expressed in the Gastric Gland Mucous Cell-Type Mucin. Proceedings of the National Academy of Sciences. 1999, Volume 96, No. 16, pp. 8991-8996, see pages 8992-8996.	1-88
Y	SUZUKI et al. Molecular Cloning and Expression of a Novel Beta-Gal-3-O-Sulfotransferase that Acts Preferentially on N-Acetyllactosamine in N- and O-Glycans. Journal of Biological Chemistry. 29 June 2001, Volume 276, No. 26, pp. 24388-24395, see especically pages 24389-24395.	1-88
Y	UJITA, M. et al. Synthesis of Poly-N-Acetylglucosamine in Core 2 Branched O-glycan. The Requirement of Novel Beta-1,4-Galactosyltransferase IV and Beta-1,4-N-Acetylglucosaminyltransferase. Journal of Biological Chemistry. 1998, Volume 272, No. 52, pp. 34843-34849, see especially pages 34845-34848	1-88
Y	US 5,700,671 A (PRIETO et al) 23 December 1997, column 18, line 55 to column 30, line 2.	1-88
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